

ABSTRACT

An antimicrobial suture assembly comprising a containment compartment comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof, in an amount sufficient to substantially inhibit bacterial colonization on said containment compartment; and a suture positioned within the containment compartment, the suture comprising one or more surfaces having an antimicrobial agent disposed thereon, said antimicrobial agent being selected from the group consisting of halogenated hydroxyl ethers, acyloxydiphenyl ethers, and combinations thereof, and at least one active agent selected from the group consisting of a biocide, a disinfectant, an antiseptic, an antibiotic, an antimicrobial peptide, a lytic bacteriophage, a surfactant; an adhesion blocker; an oligonucleotide, an efflux pump inhibitors; a photosensitive dye, an immune modulator and a chelator.